

FIG. 1

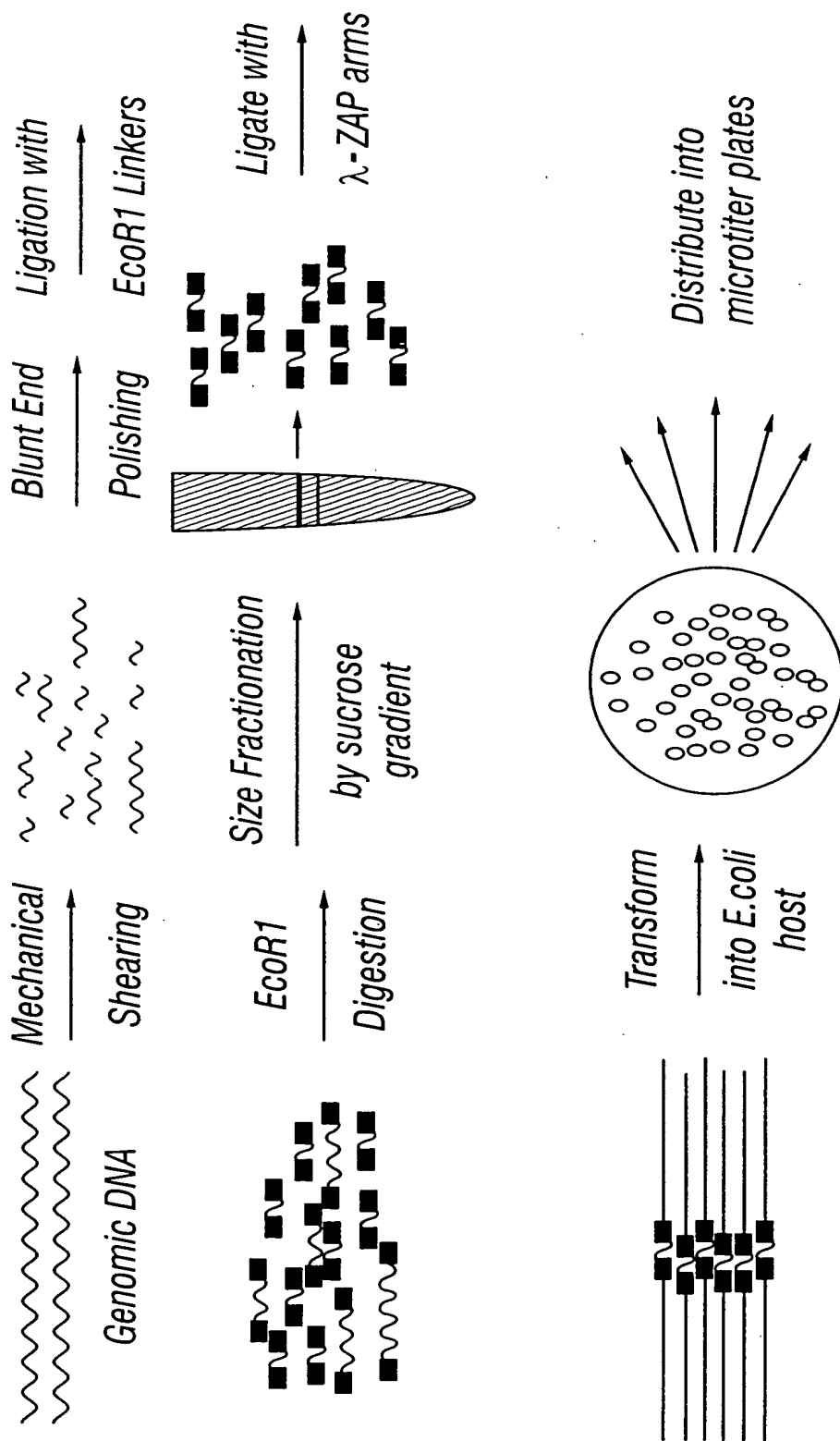


FIG. 2

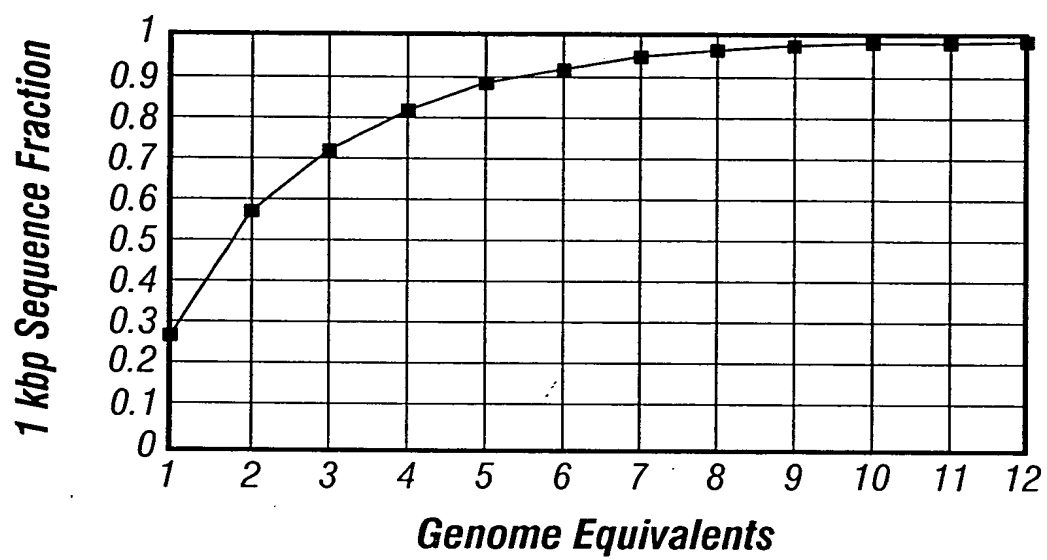
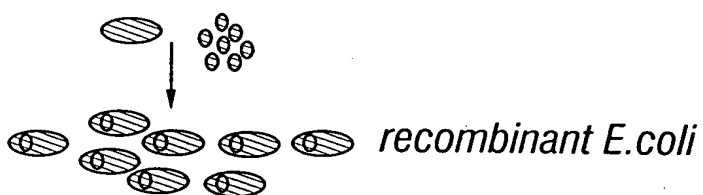


FIG. 3

*Cell sorting to screen for recombinant  
enzymes*

*excise  $\lambda$  library into E.coli*



*add enzyme substrate*



*recombinant enzyme  
cleaves substrate  
to make cells fluorescent*



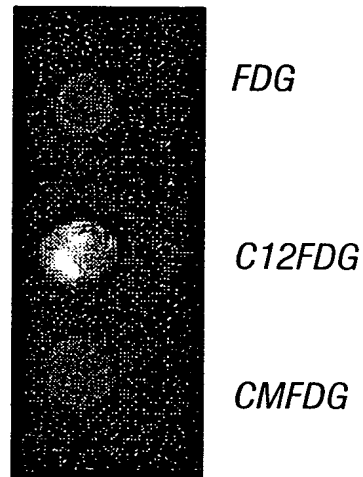
*sort*



**FIG. 4**

***$\beta$ -Gal clone with different substrates***

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells

**FIG. 5**

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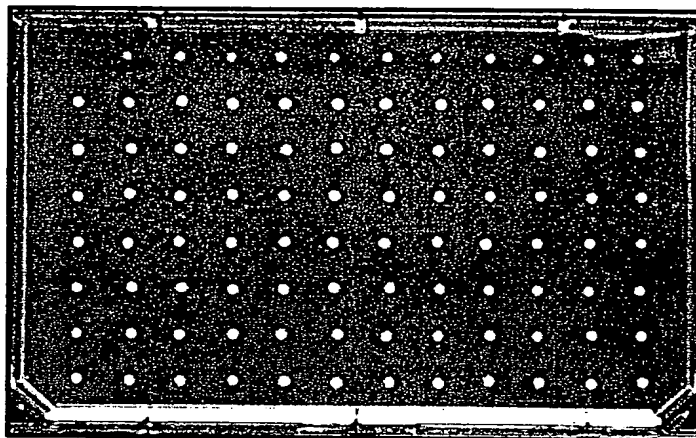


FIG. 6

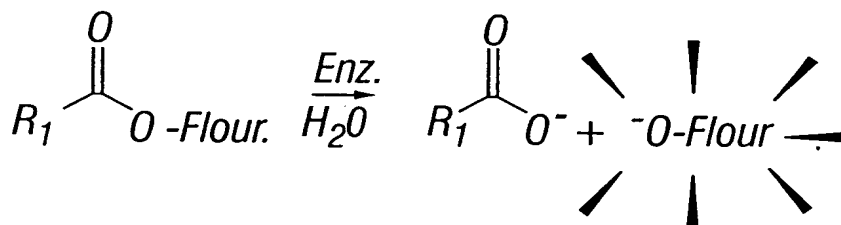


FIG. 7

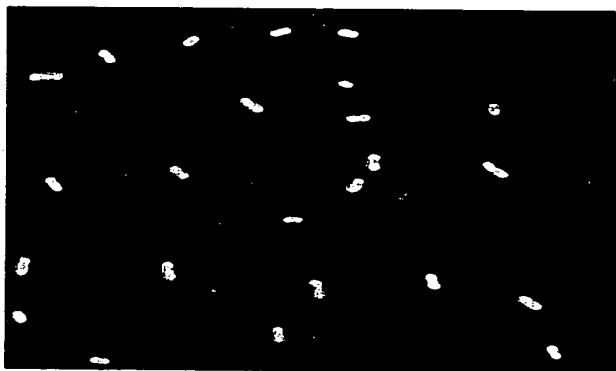


FIG. 8

0948185 050301  
T0E050" 58F84850

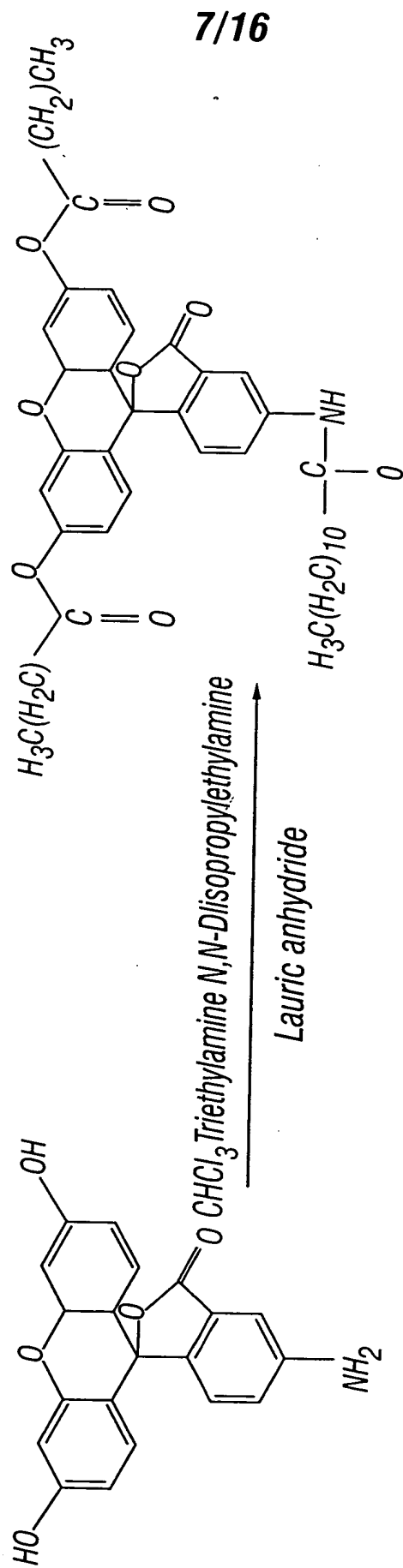


FIG. 9

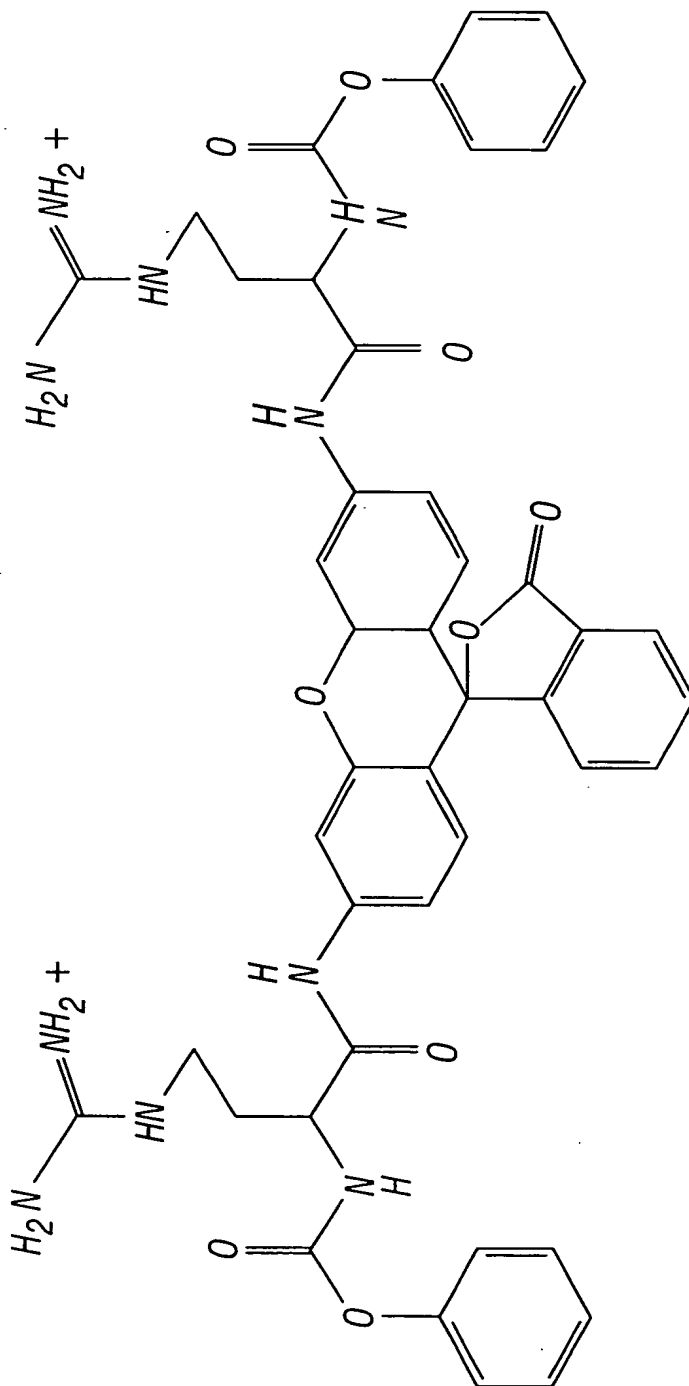
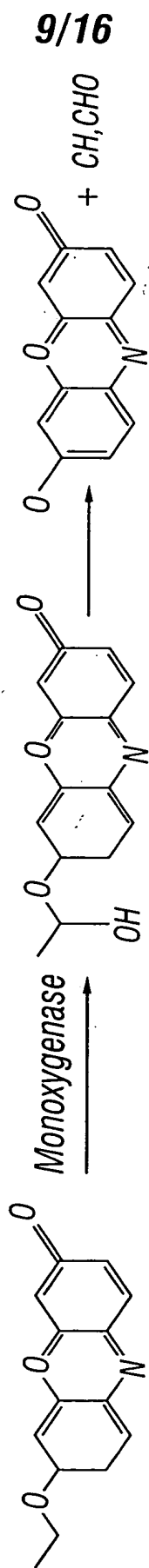
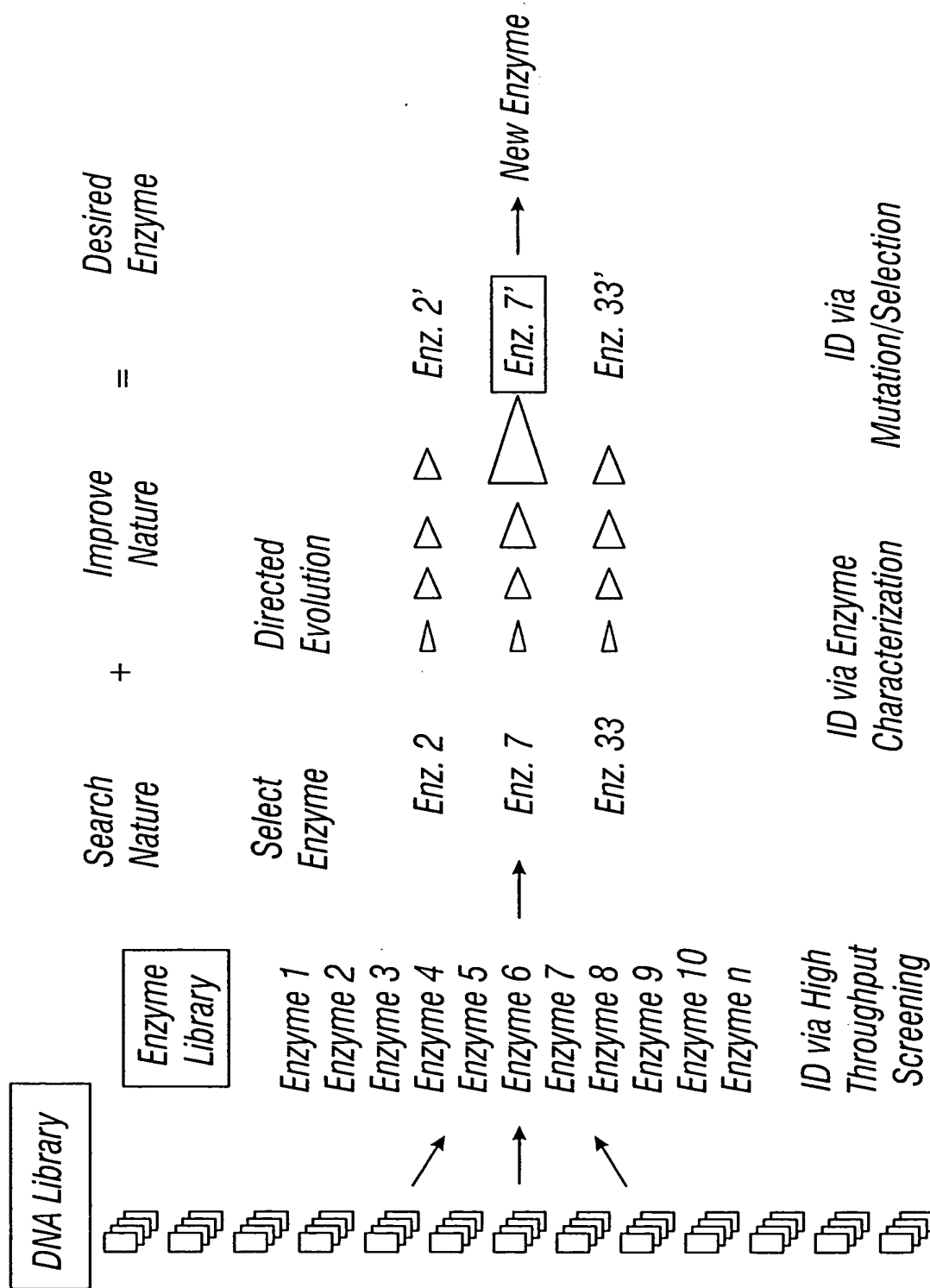


FIG. 10







**FIG. 12**

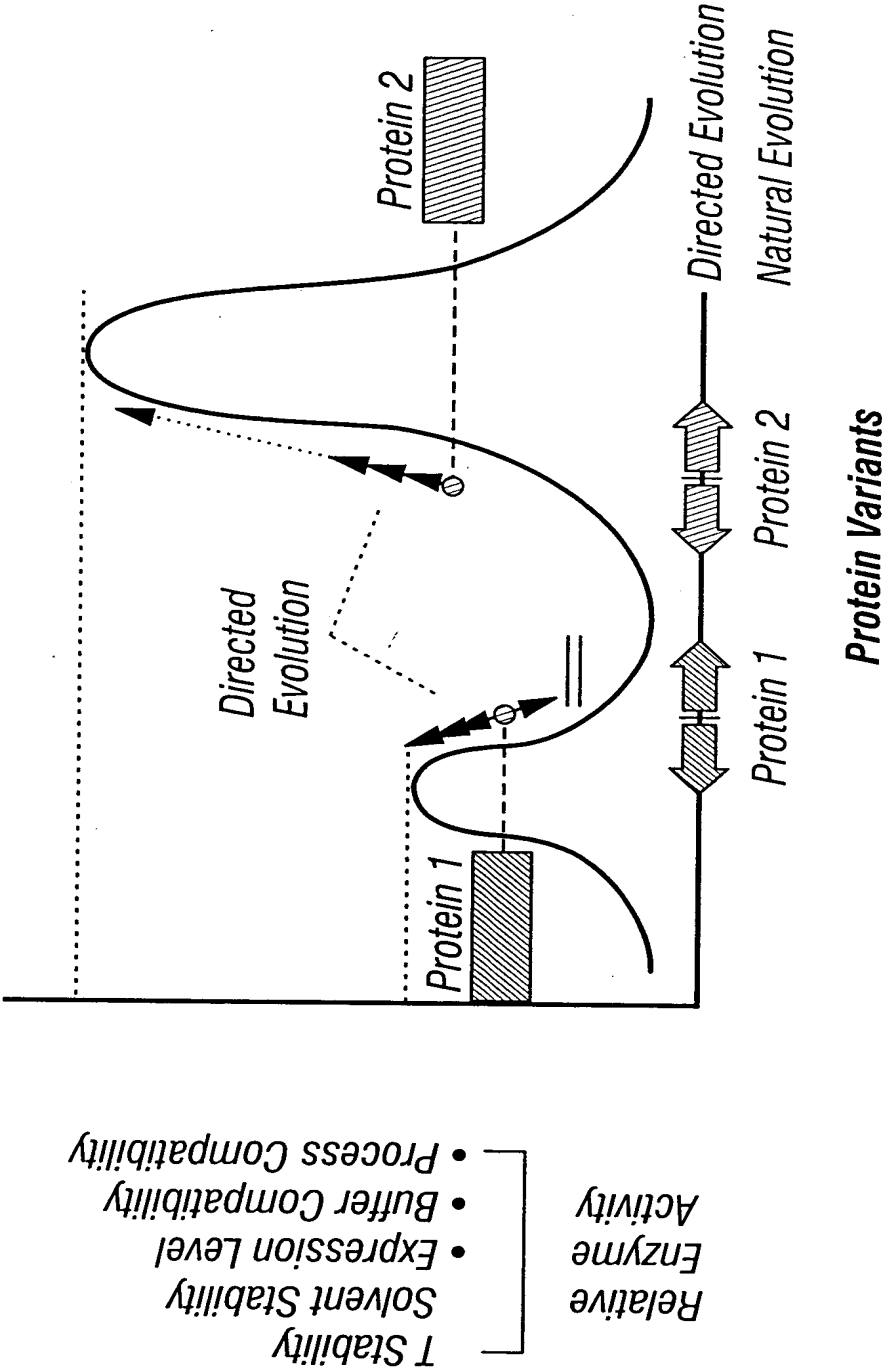


FIG. 13

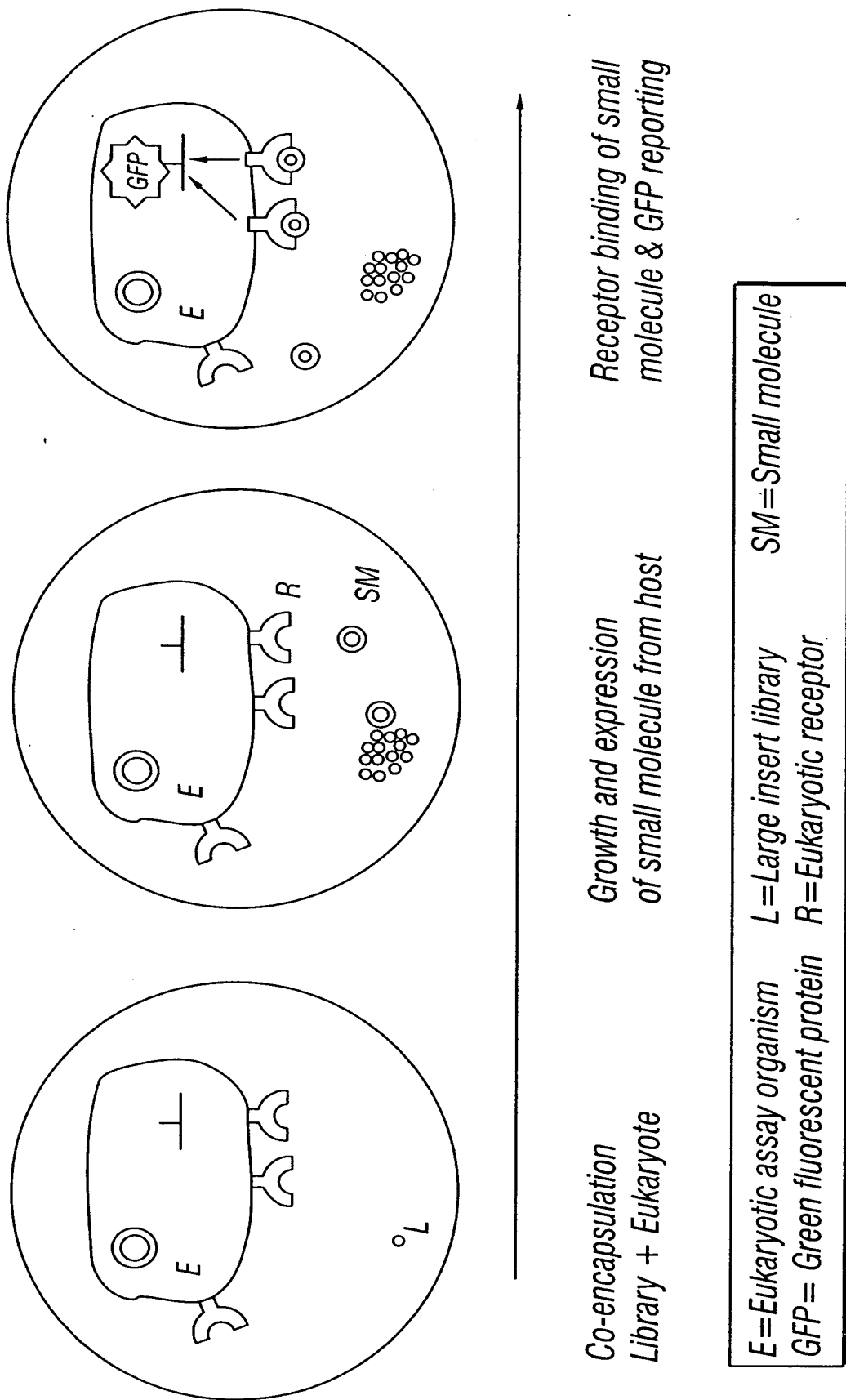


FIG. 14

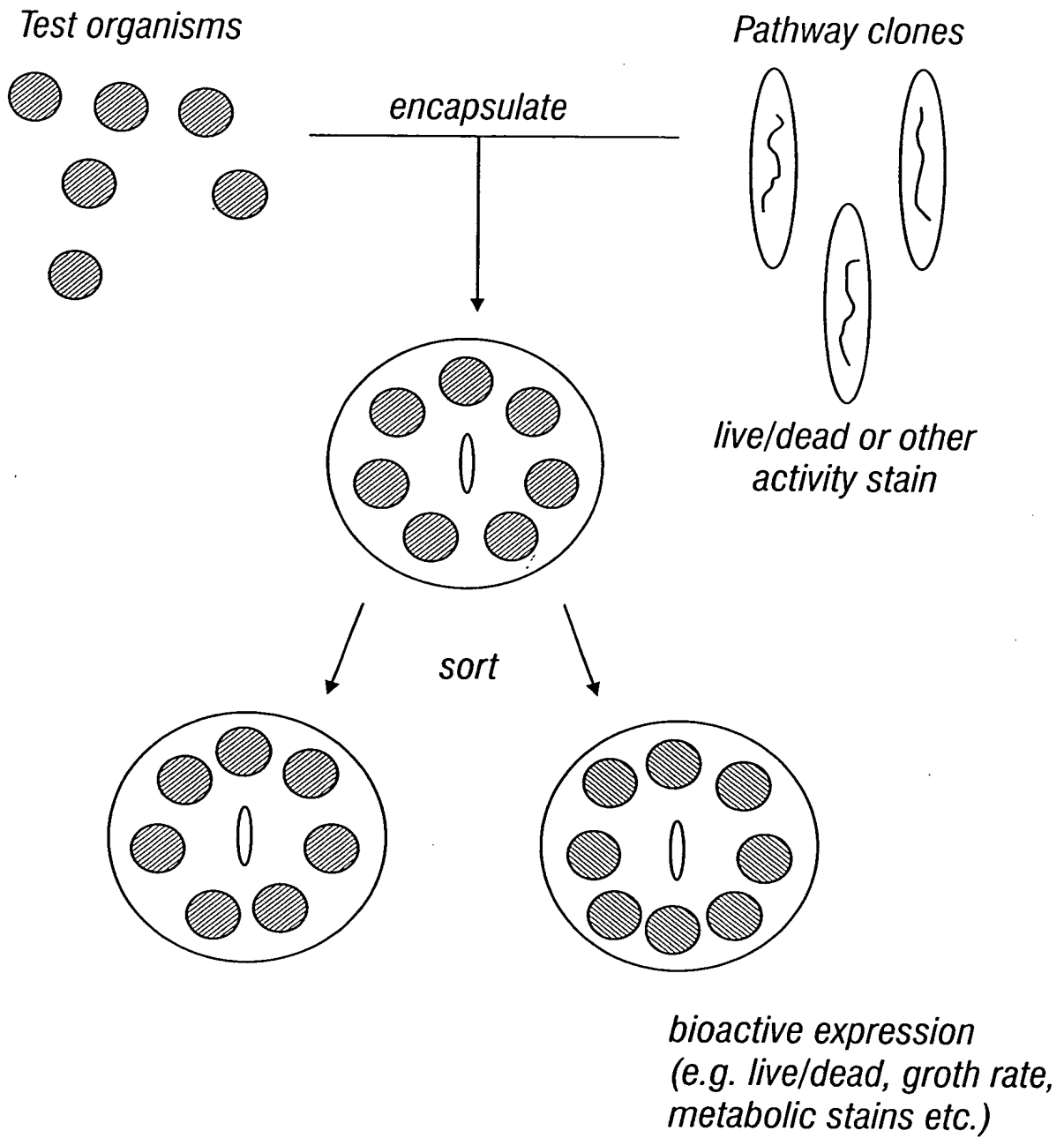
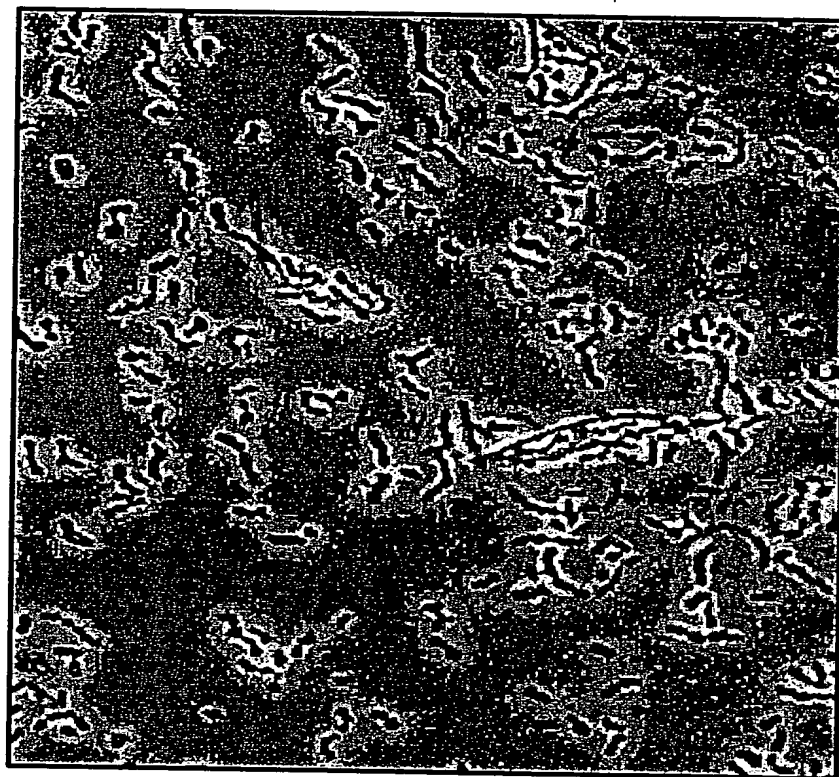
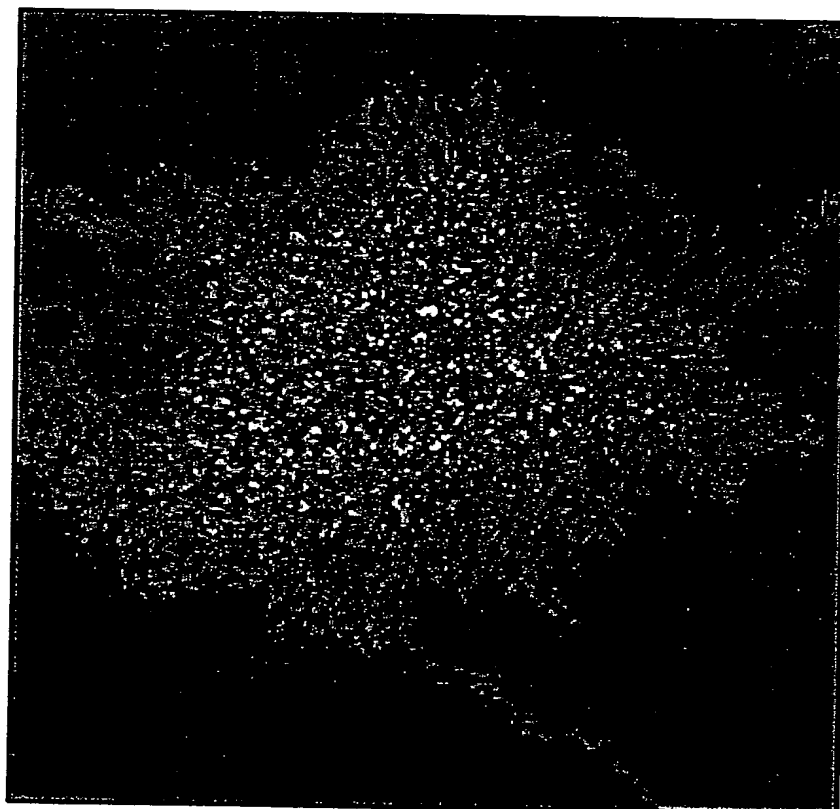


FIG. 15

TOE050" SAT84860



*Streptomyces "diversa"*  
Unicells



*Streptomyces lividans*  
mycelia

FIG. 16

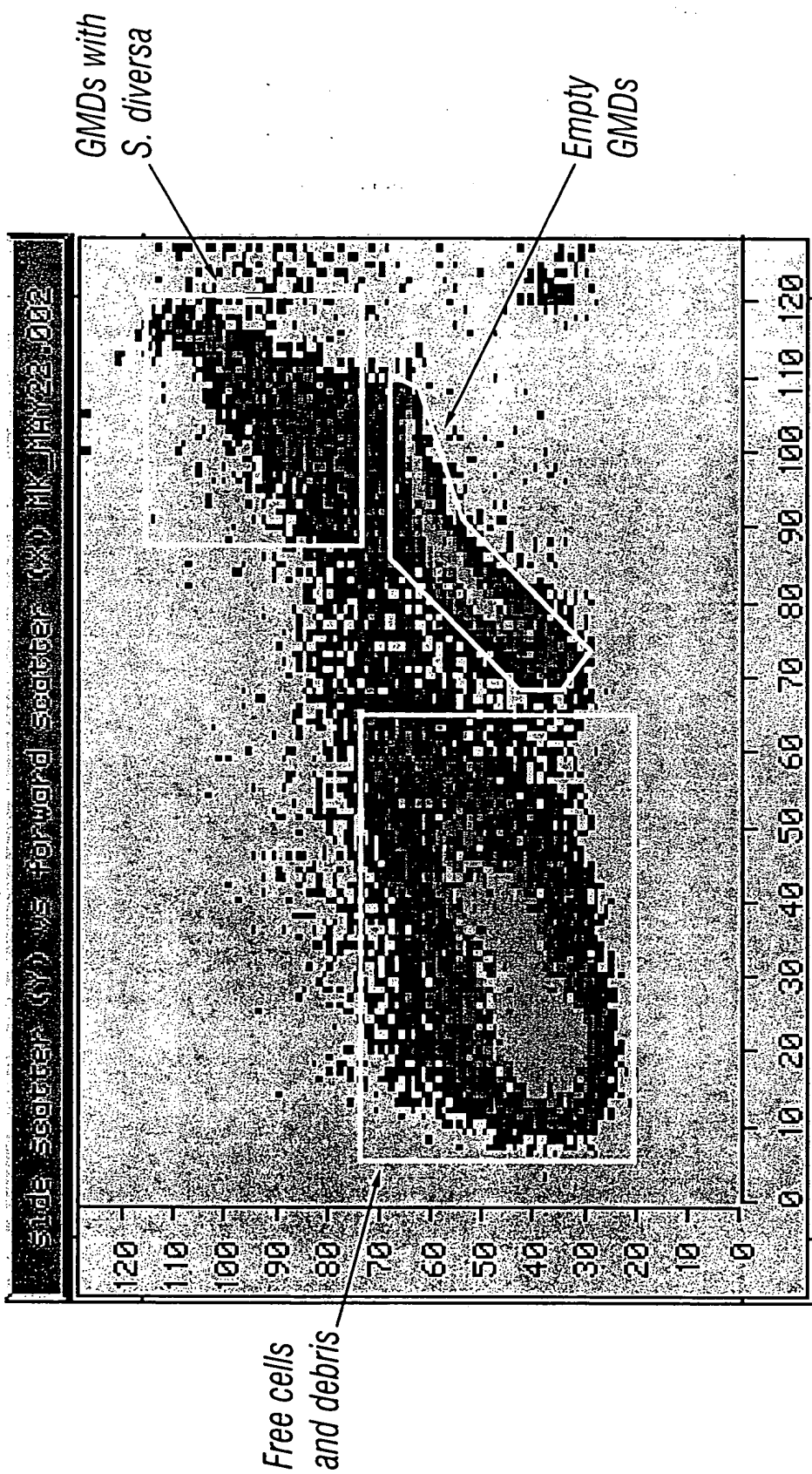


FIG. 17

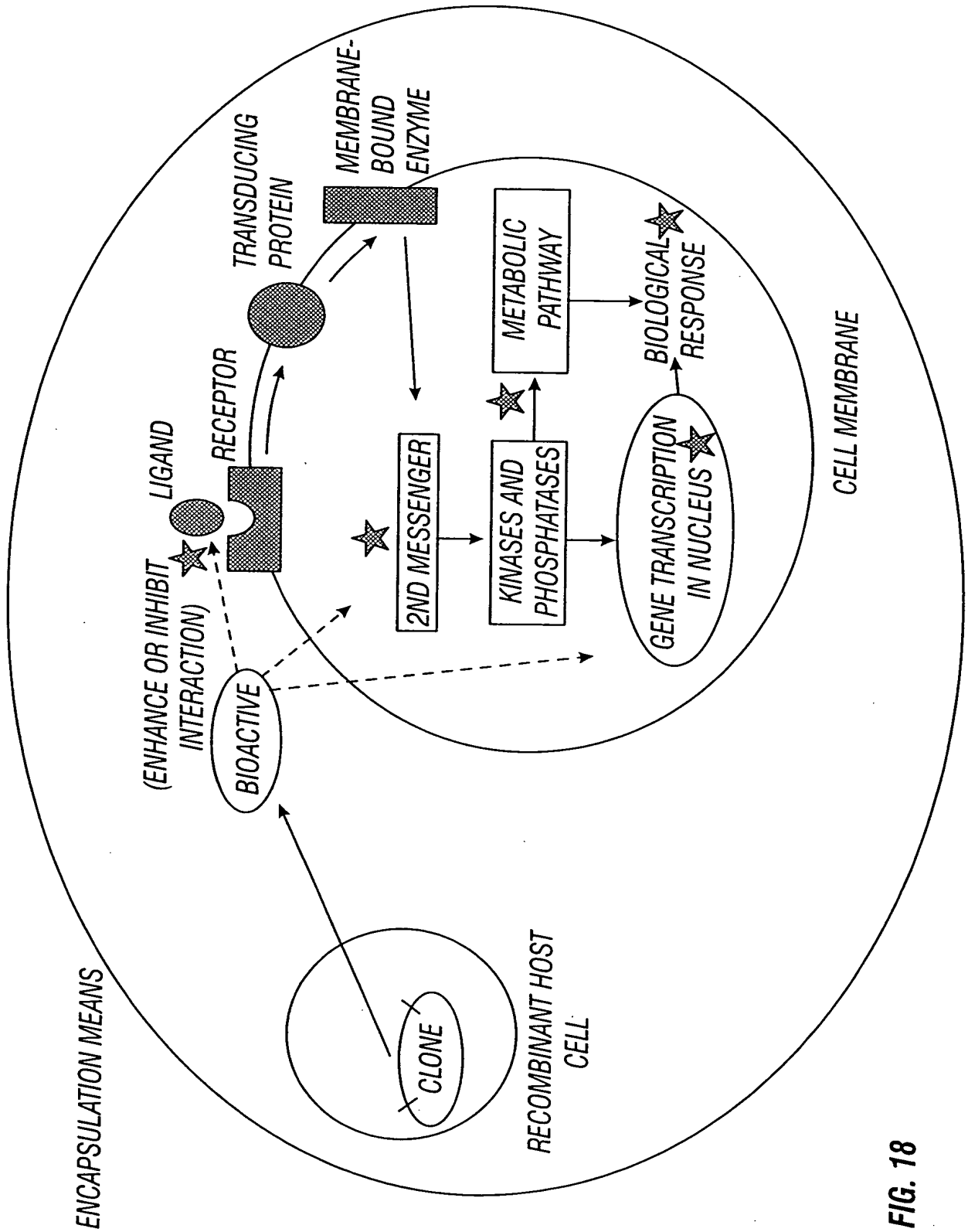


FIG. 18